

ICAO Guidance Sign

Compliances:

- ICAO: Annex 14 - Volume I
- NATO: STANAG 3316

Manual:

- Instruction Manual **UT-MT-0238**



Applications:

- ICAO signs, model IGS, are designed for use on airport taxiways and runways to mark taxi routes and intersections. Colours may be black on yellow, yellow on black, or white on red depending on the application as defined by ICAO, Annex 14. IGS signs may be used as guidance markers in compliance with STANAG Specs.

Characteristics:

- Designed in compliance with FAA 150/5345-44
- Structural integrity assured by extruded aluminium panels
- Matt black external finishing
- Metric hardware
- Long life fluorescent lamps
- Modular design with uniform leg spacing
- Two lamps per module, each powered through a dedicated single-lamp electronic ballast for maximum reliability
- Long life, UV and abrasion resistant polycarbonate sign faces with translucent messages
- Message on one or both faces
- Breakable couplings may be pre-installed on concrete pad and sign lowered onto them for easy installation
- Enclosed power entry through protective flexible pipe
- External power disconnecting switch breaks all electrical connections to the sign for safe maintenance
- Operates from 1 step (6.6 A) or 3 steps (4.8 A to 6.6 A) or 5 steps (2.8 A to 6.6 A) series lighting circuit through isolating transformers. See TABLE B on this page for isolating transformer choice
- Constant average sign luminance (widely exceeding ICAO Specs) at any series current step from 2.8 A through 6.6 A. See TABLE A on this page for luminance data
- Power required to CCR per module: ≤ 150 VA at 6.6 A, ≤ 200 VA at 4.8-6.6 A, ≤ 250 VA at 2.8-6.6 A
- Power factor not less than 0.90 at any series current step from 2.8 A through 6.6 A
- Operating temperature: -20°C to +55°C

TABLE A - LUMINANCE (in cd/m²)

| LEGEND SIZE | HEIGHT of SIGN FACES | COLOURS | | |
|-------------|----------------------|---------|--------|-------|
| | | RED | YELLOW | WHITE |
| 400 mm | 800 mm | 70 | 480 | 560 |
| 300 mm | 600 mm | 75 | 540 | 700 |

How To Order:

IGS32 - 1 - 23

Basic Part Number: _____

Size: _____
 3 = Sign, 300 mm Legend Height
 4 = Sign, 400 mm Legend Height

Number of Faces: _____
 1 = Single Face
 2 = Double Face

Number of Modules: 1 to 4 _____

Options: _____
 00 = Without Lamps
 01 = Tether
 10 = Lamp monitoring
 18 = Double power supply for 3 and 4 module signs
 23 = Retroreflective faces
 69 = Orange rear side for single face signs
 77 = LC filter (for operation on series circuit with Single Burnt-out Lamp Detection Devices)

* Maximum of (4) Modules for sign. If more modules are required, two signs may be co-located

- To determine the exact number of modules to fit your message, contact OCEM
- To construct the catalogue number, add to the basic part number the size code, the number of faces and the number of modules
- If required, any option can be added
- Floor flanges included; anchor bolts not included
- Order isolation transformer(s), eventual transformer housing with baseplate and gasket, pipe elbow and connector kit separately
- The colours of the sign face and the legends must be specified for each sign
- Multiple messages and colours may appear on a sign face
- When facing side A, the power entry is on the right.
- Orders should always specify the message orientation

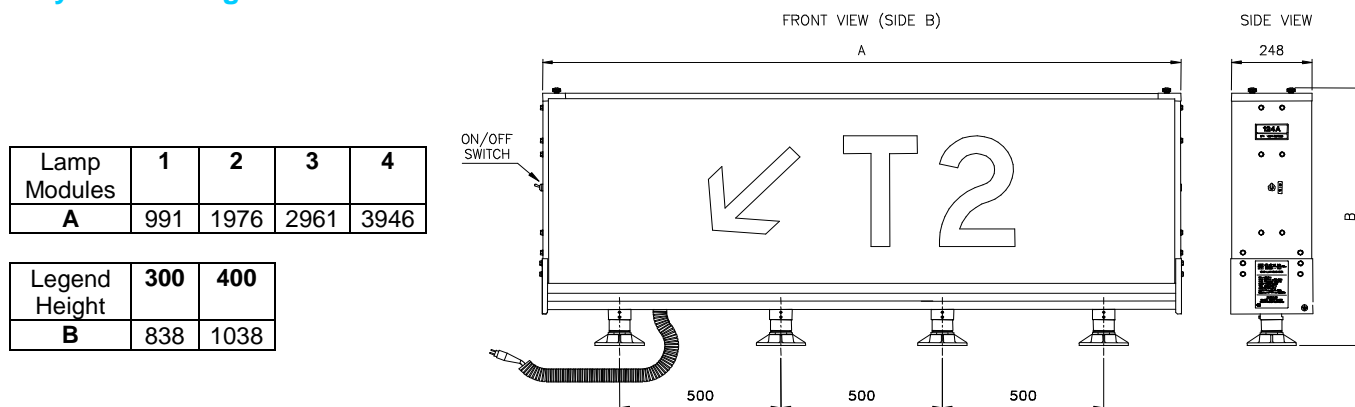
TABLE B - REQUIRED ISOLATING TRANSFORMERS

| | Sign modules | | | |
|---------------------------|--------------|-------|-------|------------|
| | 1 | 2 | 3 | 4 |
| Transformer Rating | 200 W | 300 W | 400 W | 2x300 W(1) |

(1) Use consolidating harness P/N 011.3100 to connect in series the secondary of the isolation transformers, if not provided with grounding terminal.

NOTE: performances may vary depending on type and manufacturer of isolation transformers and CCRs

Layout Drawings:



Accessories:

| [P/N] | Description |
|----------|---|
| 013.0010 | Set of two ryton rings for receptacle support inside pipe elbow |
| 013.0008 | Galvanized steel pipe elbow with upper threaded end only |
| 315.3210 | Galvanized steel pipe elbow with both threaded ends |
| 315.1228 | Base L-867, Class IA, Size B, 24" deep |
| 315.1062 | Baseplate for L-867 base with gasket and cable clamp |
| 011.2300 | Transformer pack for series circuits FAA L-831 2x300 W 6.6/6.6 A, suitable for secondary grounding |
| 011.3100 | Consolidating harness (for series connection between two, 300 W 6.6/6.6 A transformers without secondary grounding) |
| 315.4150 | M12x60 anchoring rod, 250 mm long, complete with hardware(4 pieces for each floor flange) |

For any information about isolating transformers and connectors, please see the specific catalogue pages

Renewal Parts:

| [P/N] | Description |
|----------|--|
| 303.7325 | Breakable coupling for sign with 400 mm legend height |
| 303.7335 | Breakable coupling for sign with 300 mm legend height |
| 303.7310 | Floor flange |
| 760.3615 | 30W fluorescent lamp, dia 26 mm |
| 760.3616 | 30W fluorescent lamp, dia 26 mm, for sign provide with retroreflective faces (option 23) |
| 169.5210 | G13 lampholder (IP 67) with hardware |
| 657.0045 | Single-lamp electronic ballast |
| 150.1964 | Electronic card E897 |
| 323.2367 | Cable lead with plug |
| 464.0238 | ON-OFF switch |
| 464.0234 | ON-OFF switch, for sign provided with double power supply (option 18) |
| 470.0218 | Rubber cap for switch |
| 169.6120 | LC filter (for operation on series circuit with Single Burnt-out Lamp Detection Devices) (option 77) |

Shipping Weights and Volumes:

| LEGEND SIZE | Number of Modules | | | |
|-------------|-----------------------------|-----------------------------|------------------------------|------------------------------|
| | 1 | 2 | 3 | 4 |
| 300 | 46 kg - 0.30 m ³ | 80 kg - 0.57 m ³ | 117 kg - 0.84 m ³ | 145 kg - 1.11 m ³ |
| 400 | 51 kg - 0.35 m ³ | 88 kg - 0.68 m ³ | 128 kg - 1.01m ³ | 160 kg - 1.35 m ³ |



Via 2 Agosto 1980, 11 40016 - S. GIORGIO DI PIANO - BOLOGNA (ITALY)

tel: +39 051 6656611 - fax: +39 051 6650099

e-mail: ocem@ocem.com - web: www.ocem.com